## **Activity 4**

- 3. Test your cluster with nginx as followed:
  - a. Deploy an nginx on your cluster using the deployment file from <a href="https://k8s.io/examples/application/deployment.yaml">https://k8s.io/examples/application/deployment.yaml</a>
  - b. Use kubectl to describe the deployment

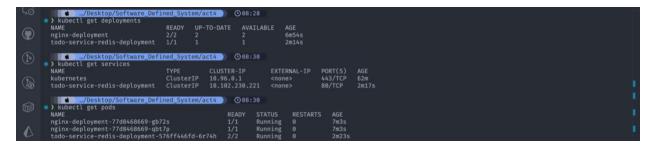
```
| Joseph | J
```

a. & b.

- 4. Deploy a todo service with redis database as followed:
  - b. Create a deployment file of a pod with service of the following containers:
    - I. todo (release-2.1)
    - II. redis

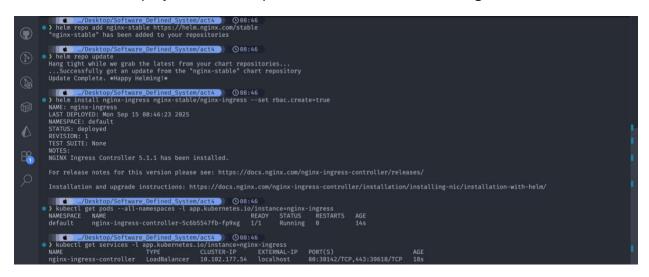
```
c. apiVersion: apps/v1
d. kind: Deployment
f. name: todo-service-redis-deployment
h. app: todo-service-redis
   replicas: 1
      app: todo-service-redis
n.
       app: todo-service-redis
       - name: todo-service
       image: natawut/todo-service:release-2.1
         - containerPort: 8000
         - name: REDIS_HOST
           value: localhost
        - name: redis
         image: redis:7-alpine
dd.
```

deployment.yaml



b. get commands results.

d. Create a deployment file of a pod with service of the following containers:



nginx-ingress

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
name: todo-service-redis-ingress
namespace: default
annotations:
nginx.ingress.kubernetes.io/rewrite-target: /
spec:
ingressClassName: nginx
rules:
- host: localhost
http:
paths:
- path: /
pathType: Prefix
backend:
service:
name: todo-service-redis-deployment
port:
number: 80
```

ingress.yaml



## apply ingress

```
**Subsect get ingress CLASS HOSTS ADDRESS PORTS AGE todo-service-redis-ingress nginx localhost 80 2m29s

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```

describe ingress

- e. Test the newly deployment
- i. Create a new todo record with {"title":"todo-1","detail":"the first todo","duedate":"2022-10-24
- 11:00:00","tags":[],"completed":false}
- ii. Get todo list via localhost:80